

Index to Volume 65

Author Index

- Aalto, T., M. Lehtonen, and P. Varo. Dietary fiber content of barley grown in Finland, 284
- Abbas, H. K., C. J. Mirocha, R. Rosile, and M. Carvajal. Decomposition of zearelenone and deoxynivalenol in the process of making tortillas from corn, 15
- Alary, R. See K. Kobrehel, 65
- Albers, L. D. See G. L. Lookhart, 222
- Alexander, N. J. See G. St. Julian, 70
- Altosaar, I. See A. E. Hansen, 153
- Añón, M. C. See C. E. Lupano, 49
- Asp, N.-G. See M. Siljeström, 1
- Atwell, W. A., R. G. Hyldon, P. D. Godfrey, E. L. Galle, W. H. Sperber, D. C. Pedersen, W. D. Evans, and G. O. Rabe. Germinated quinoa flour to reduce the viscosity of starchy foods, 508
- Axtell, J. D. See S. W. VanScoyoc, 75
- Bains, G. S. See T. Singh, 118
- Baker, A. E., C. E. Walker, and K. Kemp. An optimum compression depth for measuring bread crumb firmness, 302
- , W. T. Doerry, K. Kulp, and K. Kemp. A response-surface analysis of the oxidative requirements of no-time doughs, 367
- Baranowski, J. D. See H. Chen, 244
- Baudet, J. See J. Mossé, 271
- Bedolla, S. See S. O. Serna-Saldivar, 44
- Bhatty, R. S., and A. W. MacGregor. Gamma irradiation of hullless barley: Effect on grain composition, β -glucans, and starch, 463
- Bietz, J. A. See F. R. Huebner, 362
- , See J. W. Paulus, 215
- Biliaderis, C. G. See M. G. Scanlon, 486
- Biss, R., and U. Cogan. The significance of insoluble protein solubilization in corn steeping, 281
- Biswas, S. K., and B. O. Juliano. Laboratory parboiling procedures and properties of parboiled rice from varieties differing in starch properties, 417
- Björk, I. See M. Siljeström, 1
- Bothast, R. J. See G. St. Julian, 70
- Brabec, D. See Y. Pomeranz, 86
- Branch, A. L. See K. H. McWatters, 23
- Bright, P. H. See G. S. Ranhotra, 9
- Burkholder, W. E. See T. L. Mounts, 175
- Bushuk, W. See E. Kurowska, 156
- , See P. K. Ng, 408
- Canett, R. See S. O. Serna-Saldivar, 44
- Carnovale, E., E. Lugaro, and G. Lombajdi-Boccia. Phytic acid in faba bean and pea: Effect on protein availability, 114
- Carvajal, M. See H. K. Abbas, 15
- Chakraborty, K., and K. Khan. Biochemical and breadmaking properties of wheat protein components. I. Compositional differences revealed through quantitation and polyacrylamide gel electrophoresis of protein fractions from various isolation procedures, 333
- , and ———. Biochemical and breadmaking properties of wheat protein components. II. Reconstitution baking studies of protein fractions from various isolation procedures, 340
- Chandrashekar, A., and A. W. Kirleis. Influence of protein on starch gelatinization in sorghum, 457
- Chang, C. S. Measuring density and porosity of grain kernels using a gas pycnometer, 13
- Chen, H., G. L. Rubenthaler, H. K. Leung, and J. D. Baranowski. Chemical, physical, and baking properties of apple fiber compared with wheat and oat bran, 244
- Chen, L. F. See J. T. Chien, 484
- Chien, J. T., J. E. Hoff, and L. F. Chen. Simultaneous dehydration of 95% ethanol and extraction of crude oil from dried ground corn, 484
- Chinnan, M. S. See K. H. McWatters, 23
- Chinnaswamy, R., and M. A. Hanna. Relationship between amylose content and extrusion-expansion properties of corn starches, 138
- Choto-Owen, C. See D. S. Jackson, 493
- Chung, O. K. See K. L. Rho, 320
- Clancy, J. A., and S. E. Ullrich. Analysis and selection program for malt quality in barley by microcomputer, 428
- Class, A. R. See T. L. Mounts, 175
- Clements, R. L. Note: A labor-saving technique for polyacrylamide gel electrophoresis of gliadins from large numbers of single wheat kernels, 150
- Cogan, U. See R. Biss, 281
- Cullen-Refai, A., J. M. Faubion, and R. C. Hoseney. Lubricated uniaxial compression of fermenting doughs, 401
- Cuppett, S. L. See P. L. Harris, 228, 267
- Czuchajowska, Z. See C. R. Martin, 431
- Davis, A. B. See S. R. Eckhoff, 503
- Davis, C. W. See T. L. Mounts, 175
- Davis, E. A. See L. E. Pearce, 55
- De Stefanis, V. A. Analysis of azodicarbonamide in wheat flour by liquid chromatography, 52
- , P. M. Ranum, and R. W. Erickson. The effect of metal ions on bromate oxidation during breadmaking, 257
- Dexter, J. E. See M. G. Scanlon, 486
- Deyoe, C. W. See K. L. Rho, 320
- Dhaliwal, A. S., D. J. Mares, D. R. Marshall, and J. H. Skeritt. Protein composition and pentosan content in relation to dough stickiness of 1B/1R translocation wheats, 143
- Dick, J. W. See W. Duszkiwicz-Reinhard, 278
- Doerry, W. T. See A. E. Baker, 367
- Donelson, J. R. The contribution of high-protein fractions from cake and cookie flours to baking performance, 389
- , See P. L. Finney, 449
- , See C. S. Gaines, 384
- Dreese, P. C., J. M. Faubion, and R. C. Hoseney. Dynamic rheological properties of flour, gluten, and gluten-starch doughs. I. Temperature-dependent changes during heating, 348
- , ———, and ———. Dynamic rheological properties of flour, gluten, and gluten-starch doughs. II. Effect of various processing and ingredient changes, 354
- Duszkiwicz-Reinhard, W., K. Khan, J. W. Dick, and Y. Holm. Shelf life stability of spaghetti fortified with legume flours and protein concentrates, 278
- Eckhoff, S. R., W. A. Supak, and A. B. Davis. A rapid single-kernel wheat hardness tester, 503
- Ejeta, G. See S. W. VanScoyoc, 75
- Eliasson, A.-C. See M. Siljeström, 1
- Enevoldsen, B. S., and B. O. Juliano. Ratio of A chains and B chains in rice amylopectins, 424
- Erickson, R. W. See V. A. De Stefanis, 257
- Evans, W. D. See W. A. Atwell, 508
- Evers, A. D., and M. Reed. Some novel observations by scanning electron microscopy on the seed coat and nucellus of the mature wheat grain, 81
- Ewart, J. A. D. Studies on disulfide bonds in glutenin, 95
- Faubion, J. M. See A. Cullen-Refai, 401
- , See P. C. Dreese, 348, 354
- Feng, Y., C. E. McDonald, and B. A. Vick. C-Glycosylflavones from hard red spring wheat bran, 452
- Fengler, A. I., and R. R. Marquardt. Water-soluble pentosans from rye: I. Isolation, partial purification, and characterization, 291
- , and ———. Water-soluble pentosans from rye: II. Effects on rate of dialysis and on the retention of nutrients by the chick, 298
- Fine, T. A. See T. F. Schatzki, 233
- Finney, P. L., J. E. Kinney, and J. R. Donelson. Prediction of damaged starch in straight-grade flour by near-infrared reflectance analysis of whole ground wheat, 449
- , See C. S. Gaines, 384, 471
- Foehse, K. B., and R. C. Hoseney. Factors affecting the Bostwick fluidity of corn flour/water systems, 497
- , ———, and D. E. Johnson. Predicting the fluidity of corn flour/water systems, 501
- Freer, S. N. See G. St. Julian, 70
- Friesen, A. D. See U. Zawistowska, 413

Index to Volume 65

Author Index

- Aalto, T., M. Lehtonen, and P. Varo. Dietary fiber content of barley grown in Finland, 284
- Abbas, H. K., C. J. Mirocha, R. Rosile, and M. Carvajal. Decomposition of zearelenone and deoxynivalenol in the process of making tortillas from corn, 15
- Alary, R. See K. Kobrehel, 65
- Albers, L. D. See G. L. Lookhart, 222
- Alexander, N. J. See G. St. Julian, 70
- Altosaar, I. See A. E. Hansen, 153
- Añón, M. C. See C. E. Lupano, 49
- Asp, N.-G. See M. Siljeström, 1
- Atwell, W. A., R. G. Hyldon, P. D. Godfrey, E. L. Galle, W. H. Sperber, D. C. Pedersen, W. D. Evans, and G. O. Rabe. Germinated quinoa flour to reduce the viscosity of starchy foods, 508
- Axtell, J. D. See S. W. VanScoyoc, 75
- Bains, G. S. See T. Singh, 118
- Baker, A. E., C. E. Walker, and K. Kemp. An optimum compression depth for measuring bread crumb firmness, 302
- , W. T. Doerry, K. Kulp, and K. Kemp. A response-surface analysis of the oxidative requirements of no-time doughs, 367
- Baranowski, J. D. See H. Chen, 244
- Baudet, J. See J. Mossé, 271
- Bedolla, S. See S. O. Serna-Saldivar, 44
- Bhatty, R. S., and A. W. MacGregor. Gamma irradiation of hullless barley: Effect on grain composition, β -glucans, and starch, 463
- Bietz, J. A. See F. R. Huebner, 362
- , See J. W. Paulus, 215
- Biliaderis, C. G. See M. G. Scanlon, 486
- Biss, R., and U. Cogan. The significance of insoluble protein solubilization in corn steeping, 281
- Biswas, S. K., and B. O. Juliano. Laboratory parboiling procedures and properties of parboiled rice from varieties differing in starch properties, 417
- Björk, I. See M. Siljeström, 1
- Bothast, R. J. See G. St. Julian, 70
- Brabec, D. See Y. Pomeranz, 86
- Branch, A. L. See K. H. McWatters, 23
- Bright, P. H. See G. S. Ranhotra, 9
- Burkholder, W. E. See T. L. Mounts, 175
- Bushuk, W. See E. Kurowska, 156
- , See P. K. Ng, 408
- Canett, R. See S. O. Serna-Saldivar, 44
- Carnovale, E., E. Lugaro, and G. Lombajdi-Boccia. Phytic acid in faba bean and pea: Effect on protein availability, 114
- Carvajal, M. See H. K. Abbas, 15
- Chakraborty, K., and K. Khan. Biochemical and breadmaking properties of wheat protein components. I. Compositional differences revealed through quantitation and polyacrylamide gel electrophoresis of protein fractions from various isolation procedures, 333
- , and ———. Biochemical and breadmaking properties of wheat protein components. II. Reconstitution baking studies of protein fractions from various isolation procedures, 340
- Chandrashekar, A., and A. W. Kirleis. Influence of protein on starch gelatinization in sorghum, 457
- Chang, C. S. Measuring density and porosity of grain kernels using a gas pycnometer, 13
- Chen, H., G. L. Rubenthaler, H. K. Leung, and J. D. Baranowski. Chemical, physical, and baking properties of apple fiber compared with wheat and oat bran, 244
- Chen, L. F. See J. T. Chien, 484
- Chien, J. T., J. E. Hoff, and L. F. Chen. Simultaneous dehydration of 95% ethanol and extraction of crude oil from dried ground corn, 484
- Chinnan, M. S. See K. H. McWatters, 23
- Chinnaswamy, R., and M. A. Hanna. Relationship between amylose content and extrusion-expansion properties of corn starches, 138
- Choto-Owen, C. See D. S. Jackson, 493
- Chung, O. K. See K. L. Rho, 320
- Clancy, J. A., and S. E. Ullrich. Analysis and selection program for malt quality in barley by microcomputer, 428
- Class, A. R. See T. L. Mounts, 175
- Clements, R. L. Note: A labor-saving technique for polyacrylamide gel electrophoresis of gliadins from large numbers of single wheat kernels, 150
- Cogan, U. See R. Biss, 281
- Cullen-Refai, A., J. M. Faubion, and R. C. Hoseney. Lubricated uniaxial compression of fermenting doughs, 401
- Cuppett, S. L. See P. L. Harris, 228, 267
- Czuchajowska, Z. See C. R. Martin, 431
- Davis, A. B. See S. R. Eckhoff, 503
- Davis, C. W. See T. L. Mounts, 175
- Davis, E. A. See L. E. Pearce, 55
- De Stefanis, V. A. Analysis of azodicarbonamide in wheat flour by liquid chromatography, 52
- , P. M. Ranum, and R. W. Erickson. The effect of metal ions on bromate oxidation during breadmaking, 257
- Dexter, J. E. See M. G. Scanlon, 486
- Deyoe, C. W. See K. L. Rho, 320
- Dhaliwal, A. S., D. J. Mares, D. R. Marshall, and J. H. Skeritt. Protein composition and pentosan content in relation to dough stickiness of 1B/1R translocation wheats, 143
- Dick, J. W. See W. Duszkiwicz-Reinhard, 278
- Doerry, W. T. See A. E. Baker, 367
- Donelson, J. R. The contribution of high-protein fractions from cake and cookie flours to baking performance, 389
- , See P. L. Finney, 449
- , See C. S. Gaines, 384
- Dreese, P. C., J. M. Faubion, and R. C. Hoseney. Dynamic rheological properties of flour, gluten, and gluten-starch doughs. I. Temperature-dependent changes during heating, 348
- , ———, and ———. Dynamic rheological properties of flour, gluten, and gluten-starch doughs. II. Effect of various processing and ingredient changes, 354
- Duszkiwicz-Reinhard, W., K. Khan, J. W. Dick, and Y. Holm. Shelf life stability of spaghetti fortified with legume flours and protein concentrates, 278
- Eckhoff, S. R., W. A. Supak, and A. B. Davis. A rapid single-kernel wheat hardness tester, 503
- Ejeta, G. See S. W. VanScoyoc, 75
- Eliasson, A.-C. See M. Siljeström, 1
- Enevoldsen, B. S., and B. O. Juliano. Ratio of A chains and B chains in rice amylopectins, 424
- Erickson, R. W. See V. A. De Stefanis, 257
- Evans, W. D. See W. A. Atwell, 508
- Evers, A. D., and M. Reed. Some novel observations by scanning electron microscopy on the seed coat and nucellus of the mature wheat grain, 81
- Ewart, J. A. D. Studies on disulfide bonds in glutenin, 95
- Faubion, J. M. See A. Cullen-Refai, 401
- , See P. C. Dreese, 348, 354
- Feng, Y., C. E. McDonald, and B. A. Vick. C-Glycosylflavones from hard red spring wheat bran, 452
- Fengler, A. I., and R. R. Marquardt. Water-soluble pentosans from rye: I. Isolation, partial purification, and characterization, 291
- , and ———. Water-soluble pentosans from rye: II. Effects on rate of dialysis and on the retention of nutrients by the chick, 298
- Fine, T. A. See T. F. Schatzki, 233
- Finney, P. L., J. E. Kinney, and J. R. Donelson. Prediction of damaged starch in straight-grade flour by near-infrared reflectance analysis of whole ground wheat, 449
- , See C. S. Gaines, 384, 471
- Foehse, K. B., and R. C. Hoseney. Factors affecting the Bostwick fluidity of corn flour/water systems, 497
- , ———, and D. E. Johnson. Predicting the fluidity of corn flour/water systems, 501
- Freer, S. N. See G. St. Julian, 70
- Friesen, A. D. See U. Zawistowska, 413

- Gaines, C. S., J. R. Donelson, and P. L. Finney. Effects of damaged starch, chlorine gas, flour particle size, and dough holding time and temperature on cookie dough handling properties and cookie size, 384
- and P. L. Finney. Measurement of the water uptake rate of crackers, 471
- Galle, E. L. See W. A. Atwell, 508
- Gelroth, J. A. See G. S. Ranhotra, 9, 155, 159
- Godfrey, P. D. See W. A. Atwell, 508
- Gonzalez, M. See S. O. Serna-Saldivar, 44
- Gordon, J. See L. E. Pearce, 55
- Gunasekaran, S. Evaluation and comparison of Wisconsin and Stein breakage testers on corn, 287
- Hanis, T., J. Mnukova, P. Jelen, P. Klir, B. Perez, and M. Pesek. Effect of gamma irradiation on survival of natural microflora and some nutrients in cereal meals, 381
- Hanna, M. A. See R. Chinnaswamy, 138
- See P. L. Harris, 267
- Hansen, A. E., A. Nassuth, and I. Altaosaar. Note: Rapid electrophoresis of oat (*Avena sativa* L.) prolamin from single seeds for cultivar identification, 153
- Harris, P. L., S. L. Cuppett, and K. W. Lee. A scanning electron microscope study of maize gluten meal and soy coextrudates, 228
- , J. H. Rupnow, C. E. Walker, R. F. Mumm, and M. A. Hanna. Optimization of initial moisture, pH, and extrusion temperature of an acetone-extracted maize gluten meal and soy extrudate for use in pet foods, 267
- Hashimoto, S. See M. D. Shogren, 182
- Hatcher, D. See J. E. Kruger, 208
- See B. A. Marchylo, 28
- He, G.-C., and H. Suzuki. A method to remove the outer layer of rice endosperm without damaging starch granules, 307
- Higuera, I. See M. E. Valencia, 101
- Hoff, J. E. See J. T. Chien, 484
- Holm, Y. See W. Duszkiwicz-Reinhard, 278
- Hoseney, R. C. See A. Cullen-Refaei, 401
- See P. C. Dreese, 348, 354
- See D. E. Rogers, 398
- See K. B. Fochse, 497, 501
- Huebner, F. R., and J. A. Bietz. Quantitative variation among gliadins of wheats grown in different environments, 362
- Huet, J.-C. See J. Mossé, 271
- Hung, Y.-C. See K. H. McWatters, 23
- Hyldon, R. G. See W. A. Atwell, 508
- Jaby El-Haramain, F. See P. C. Williams, 109
- Jackson, D. S., C. Choto-Owen, R. D. Waniska, and L. W. Rooney. Characterization of starch cooked in alkali by aqueous high-performance size-exclusion chromatography, 493
- , L. W. Rooney, O. R. Kunze, and R. D. Waniska. Alkaline processing properties of stress-cracked and broken corn (*Zea mays* L.), 133
- Jelen, P. See T. Hanis, 381
- Johnson, D. E. See K. B. Fochse, 501
- Juliano, B. O. See S. K. Biswas, 417
- See B. S. Enevoldsen, 424
- See C. M. Perez, 40
- See P. C. Sanchez, 240
- Keen, J. See P. R. Shewry, 510
- Kemp, K. See A. E. Baker, 302, 367
- Khan, K. See K. Chakraborty, 333, 340
- See W. Duszkiwicz-Reinhard, 278
- Kinney, J. E. See P. L. Finney, 449
- Kirleis, A. W. See A. Chandrashekar, 457
- Klir, P. See T. Hanis, 381
- Kobrehel, K., C. Reymond, and R. Alary. Low molecular weight durum wheat glutenin fractions rich in sulphydryl plus disulfide groups, 65
- Kruger, J. E., B. A. Marchylo, and D. Hatcher. Preliminary assessment of a sequential extraction scheme for evaluating quality by reversed-phase high-performance liquid chromatography and electrophoretic analysis of gliadins and glutenins, 208
- See A. W. MacGregor, 326
- See B. A. Marchylo, 28, 192
- Kulp, K. See A. E. Baker, 367
- Kunert, W. H. See P. B. Schwarz, 59
- Kunze, O. R. See D. S. Jackson, 133
- Kurowska, E., and W. Bushuk. Note: Solubility of flour and gluten protein in a solvent of acetic acid, urea, and cetyltrimethylammonium bromide, and its relationship to dough strength, 156
- Lai, C. S. See D. E. Rogers, 398
- Lai, F. S. See T. L. Mounts, 175
- See Y. Pomeranz, 86
- Langstaff, J. See U. Zawistowska, 413
- Laszlo, J. A. Content and stability of ferrous iron in soybean hulls, 20
- Laude, V. T. See P. C. Sanchez, 240
- Lee, K. W. See P. L. Harris, 228
- Lehtonen, M. See T. Aalto, 284
- Leissner, O. A comparison of the effect of different polymorphic forms of lipids in breadmaking, 202
- Leung, H. K. See H. Chen, 244
- Lönnner, C. See M. Siljeström, 1
- Lombardi-Boccia, G. See E. Carnovale, 114
- Lookhart, G. L., and L. D. Albers. Correlations between reversed-phase high-performance liquid chromatography and acid- and sodium dodecyl sulfate-polyacrylamide gel electrophoretic data on prolamin from wheat sister lines differing widely in baking quality, 222
- See M. Menkovska, 198
- Lu, S., and C. E. Walker. Note: Laboratory preparation of ready-to-eat breakfast flakes from grain sorghum flour, 377
- Lugaro, E. See E. Carnovale, 114
- Lupano, C. E., and M. C. Añón. A simple and rapid test for drying damage in wheat, 49
- MacGregor, A. W., B. A. Marchylo, and J. E. Kruger. Multiple α -amylase components in germinated cereal grains determined by isoelectric focusing and chromatofocusing, 326
- See R. S. Bhatti, 463
- Marchylo, B. A., D. W. Hatcher, and J. E. Kruger. Identification of wheat cultivars by reversed-phase high-performance liquid chromatography of storage proteins, 28
- and J. E. Kruger. The effect of injection volume on the quantitative analysis of wheat storage proteins by reversed-phase high-performance liquid chromatography, 192
- See J. E. Kruger, 208
- See A. W. MacGregor, 326
- Mares, D. J. See A. S. Dhaliwal, 143
- Marquardt, R. R. See A. I. Fengler, 291, 298
- Marshall, D. R. See A. S. Dhaliwal, 143
- Marshall, W. E. See Z. M. Zarins, 359
- Martin, C. R., Z. Czuchajowska, and Y. Pomeranz. The effects of wetting corn and broken corn and foreign material on aquagrams, 431
- See T. L. Mounts, 175
- See Y. Pomeranz, 86
- Mattern, P. J. Wheat hardness: A microscopic classification of individual grains, 312
- Mazza, G. Lipid content and fatty acid composition of buckwheat seed, 122
- McDonald, C. E. See Y. Feng, 452
- McWatters, K. H., M. S. Chinnann, Y.-C. Hung, and A. L. Branch. Effect of predecoloration drying temperature on cowpea paste characteristics and functionality in preparation of *Akara*, 22
- Medina, C. See S. O. Serna-Saldivar, 44
- Menkovska, M., Y. Pomeranz, G. L. Lookhart, and M. D. Shogren. Gliadin in crumb of bread from high-protein wheat flours of varied breadmaking potential, 198
- Miller, W. G. See L. E. Pearce, 55
- Mirocha, C. J. See H. K. Abbas, 15
- Mnukova, J. See T. Hanis, 381
- Morris, C. F., and G. M. Paulsen. Localization and physical properties of endogenous germination inhibitors in white wheat grain, 404
- Mossé, J., J.-C. Huet, and J. Baudet. The amino acid composition of whole sorghum grain in relation to its nitrogen content, 271
- Mounts, T. L., K. Warner, F. S. Lai, C. R. Martin, Y. Pomeranz, W. E. Burkholder, A. J. Peplinski, A. R. Class, and C. W. Davis. Effect of laboratory-scale oil applications on quality factors of corn, soybeans, and wheat, 175
- Mukuru, S. Z. See M. A. Mwasaru, 171
- See R. D. Reichert, 165
- Mumm, R. F. See P. L. Harris, 267
- Mwasaru, M. A., R. D. Reichert, and S. Z. Mukuru. Factors affecting the abrasive dehulling efficiency of high-tannin sorghum, 171
- See R. D. Reichert, 165
- Nagao, S. See K. Okada, 248
- Nassuth, A. See A. E. Hansen, 153
- Negishi, Y. See K. Okada, 248
- Ng, P. K., and W. Bushuk. Statistical relationships between high molecular weight subunits of glutenin and breadmaking quality of Canadian-grown wheats, 408
- Nielsen, S. S. Degradation of bean proteins by endogenous and exogenous

proteases—A review, 435

Nigam, S. N. See U. J. S. Prasad Rao, 373

Nyman, M. See M. Siljeström, 1

Obizoba, I. C. Nutritive value of malted, dry- or wet-milled sorghum and corn, 447

Okada, K., Y. Negishi, and S. Nagao. Characterization of acetic acid-soluble and insoluble proteins isolated from doughs mixed in the presence of *N*-ethylmaleimide, 248

Ortiz-Ferreira, G. See P. C. Williams, 109

Pan, S.-J., and Reeck, G. R. Isolation and characterization of rice α -globulin, 316

Pappin, D. J. See P. R. Shewry, 510

Paulsen, G. M. See C. F. Morris, 404

Paulsen, M. R. See C. L. Weller, 392

Paulus, J. W., and J. A. Bietz. Characterization of zeins fractionated by reversed-phase high-performance liquid chromatography, 215

Pearce, L. E., E. A. Davis, J. Gordon, and W. G. Miller. Electron spin resonance studies of isolated gluten systems, 55

Pedersen, D. C. See W. A. Atwell, 508

Peplinski, A. J. See T. L. Mounts, 175

Perez, B. See T. Hanis, 381

Perez, C. M., and B. O. Juliano. Varietal differences in quality characteristics of rice layer cakes and fermented cakes, 40

See P. C. Sanchez, 240

Pesek, M. See T. Hanis, 381

Pflugfelder, R. L., L. W. Rooney, and R. D. Waniska. Dry matter losses in commercial corn masa production, 127

_____, _____, and _____. Fractionation and composition of commercial corn masa, 262

Pomeranz, Y., C. R. Martin, R. Rousser, D. Brabec, and F. S. Lai. Wheat hardness determined by a single kernel compression instrument with semiautomated feeder, 86

See C. R. Martin, 431

See M. Menkovska, 198

See T. L. Mounts, 175

See M. D. Shogren, 182

Prasad Rao, U. J. S., and S. N. Nigam. Note: Chromatography of glutenin on sepharose CL-4B in dissociating solvents: Molecular weight composition of covalently bonded glutenin, 373

Rabe, G. O. See W. A. Atwell, 508

Ranhotra, G. S., J. A. Gelroth, and P. H. Bright. Effect of the source of fiber in bread on intestinal responses and nutrient digestibilities, 9

_____, and _____. Note: Soluble and total dietary fiber in white bread, 155

_____, and _____. Note: Soluble and insoluble fiber in soda crackers, 159

Ranum, P. M. See V. A. De Stefanis, 257

Rasco, B. A. Stability of lipids in distillers' dried grain products made from soft white winter wheat, 161

Reeck, G. R. See S.-J. Pan, 316

Reed, M. See A. D. Evers, 81

Reichert, R. D., M. A. Mwasaru, and S. Z. Mukuru. Characterization of colored-grain sorghum lines and identification of high-tannin lines with good dehulling characteristics, 165

See M. A. Mwasaru, 171

Reymond, C. See K. Kobrehel, 65

Rho, K. L., P. A. Seib, O. K. Chung, and C. W. Deyoe. Noodles. VII. Investigating the surface firmness of cooked Oriental dry noodles made from hard wheat flours, 320

Rocca, L. A. See H. F. Zobel, 443

Rogers, D. E., K. J. Zeleznak, C. S. Lai, and R. C. Hoseney. Effect of native lipids, shortening, and bread moisture on bread firming, 398

Rooney, L. W. See D. S. Jackson, 133, 493

See R. L. Pflugfelder, 127, 262

Rosiles, R. See H. K. Abbas, 15

Rousser, R. See Y. Pomeranz, 86

Rubenthaler, G. L. See H. Chen, 244

Rupnow, J. H. See P. L. Harris, 267

Sanchez, P. C., B. O. Juliano, V. T. Laude, and C. M. Perez. Nonwaxy rice for *Tapuy* (rice wine) production, 240

Sangster, K. See U. Zawistowska, 413

Scanlon, M. G., J. E. Dexter, and C. G. Biliaderis. Particle-size related physical properties of flour produced by smooth roll reduction of hard red spring wheat farina, 486

Schatzki, T. F., and T. A. Fine. Analysis of radiograms of wheat kernels for quality control, 233

Schwarz, P. B., W. H. Kuerth, and V. L. Youngs. The distribution of

lignin and other fiber components within hard red spring wheat bran, 59

Seguchi, M., and Y. Yamada. Note: Hydrophobic character of heat-treated wheat starch, 375

Seib, P. A. See K. L. Rho, 320

See S. Takahashi, 474

Serna-Saldivar, S. O., R. Canett, J. Vargas, M. Gonzalez, S. Bedolla, and C. Medina. Effect of soybean and sesame addition on the nutritional value of maize and decorticated sorghum tortillas produced by extrusion cooking, 44

Shewry, P. R., A. S. Tatham, D. J. Pappin, and J. Keen. N-Terminal amino acid sequences show that D hordein of barley and high molecular weight (HMW) secalins of rye are homologous with HMW glutenin subunits of wheat, 510

Shogren, M. D., S. Hashimoto, and Y. Pomeranz. Cereal pentosans: Their estimation and significance. IV. Pentosans in wheat flour varieties and fractions, 182

See M. Menkovska, 198

Siljeström, M., I. Björk, A.-C. Eliasson, C. Lönner, M. Nyman, and N.-G. Asp. Effects of polysaccharides during baking and storage of bread—In vitro and in vivo studies, 1

Singh, T., and G. S. Bains. Storage of wheat malt: Sorption properties and water activity interrelations with malt and wort characteristics, 118

Skerrett, J. H. See A. S. Dhaliwal, 143

Sosulski, F. W., and K. K. Wu. High-fiber breads containing field pea hulls, wheat, corn, and wild oat brans, 186

Sperber, W. H. See W. A. Atwell, 508

Srivastava, J. P. See P. C. Williams, 109

St. Julian, G., S. N. Freer, N. J. Alexander, and R. J. Bothast. Note: Characterization of cellobiose conversion to glucose and ethanol by immobilized *Candida wickerhamii*, 70

Steinberg, M. P. See C. L. Weller, 392

Supak, W. A. See S. R. Eckhoff, 503

Suzuki, H. See G.-C. He, 307

Takahashi, S., and P. A. Seib. Paste and gel properties of prime corn and wheat starches with and without native lipids, 474

Tatham, A. S. See P. R. Shewry, 510

Troncoso, R. See M. E. Valencia, 101

Twillman, T. J., and P. J. White. Influence of monoglycerides on the textural shelf life and dough rheology of corn tortillas, 253

Ullrich, S. E. See J. A. Clancy, 428

Valencia, M. E., R. Troncoso, and I. Higuera. Linear programming formulation and biological evaluation of chickpea-based infant foods, 101

VanScoyoc, S. W., G. Ejeta, and J. D. Axtell. Kernel characteristics and protein fraction changes during seed development of high-lysine and normal sorghums, 75

Vargas, J. See S. O. Serna-Saldivar, 44

Varo, P. See T. Aalto, 284

Vick, B. A. See Y. Feng, 452

Walker, C. E. See A. E. Baker, 302

See P. L. Harris, 267

See S. Lu, 377

Walker, G. C. Determination of flour glycolipids as their benzoyl derivatives by high-performance liquid chromatography with ultraviolet detection, 433

Waniska, R. D. See D. S. Jackson, 133, 493

See R. L. Pflugfelder, 127, 262

Warner, K. See T. L. Mounts, 175

Weller, C. L., M. R. Paulsen, and M. P. Steinberg. Correlation of starch recovery with assorted quality factors of four corn hybrids, 392

White, P. J. See T. J. Twillman, 253

Williams, P. C., F. Jaby El-Haramein, G. Ortiz-Ferreira, and J. P. Srivastava. Preliminary observations on the determination of wheat strength by near-infrared reflectance, 109

Wilson, C. M. Note: Electrophoretic analyses of various commercial and laboratory-prepared zeins, 72

Wu, K. K. See F. W. Sosulski, 186

Wu, Y. V. Recovery of stillage soluble solids from corn and dry-milled corn fractions by high-pressure reverse osmosis and ultrafiltration, 345

_____. Reverse osmosis and ultrafiltration of corn light steep-water solubles, 105

Yamada, Y. See M. Seguchi, 375

Young, S. N. See H. F. Zobel, 443

Youngs, V. L. See P. B. Schwarz, 59

Zarins, Z. M., and W. E. Marshall. Polysaccharides and proteins of glandless cottonseed flour, 359
 Zawistowska, U., K. Sangster, J. Zawistowski, J. Langstaff, and A. D. Friesen. Immobilized metal affinity chromatography of wheat α -amylases, 413

Zawistowski, J. See U. Zawistowska, 413
 Zeleznak, K. J. See D. E. Rogers, 398
 Zobel, H. F., S. N. Young, and L. A. Rocca. Starch gelatinization: An X-ray diffraction study, 443

Subject Index

Page numbers of errata are in *italics*.

Acknowledgment of reviewers, v
 Alcohol, dehydration from dried ground corn (Chien et al), 484
 Alkaline processing, properties of stress-cracked and broken corn (Jackson et al), 133
 Amino acids
 destruction after gamma irradiation of wheat, corn, and oats (Hanis et al), 381
 in sorghum grain, relation to nitrogen content (Mossé et al), 271
 α -Amylases
 components in germinated cereal grains (MacGregor et al), 326
 of wheat, purification by immobilized metal affinity chromatography (Zawistowska et al), 413, 512
 Amylose
 effect on expansion and hardness of rice cakes (Perez and Juliano), 40
 extrusion-expansion properties (Chinnaswamy and Hanna), 138
 Antioxidants, effect of incorporation on lipid stability of distillers' grains (Rasco), 161
 Aquagrams, of moisture in corn (Martin et al), 431
 Baking
 apple fiber properties compared (Chen et al), 244
 effects of damaged starch, chlorine gas, flour particle size, and dough holding time and temperature on cookie dough handling properties and cookie size (Gaines et al), 384
 reconstitution studies (Chakraborty and Khan), 340
 of sour dough and yeast bread (Siljeström et al), 1
 Barley
 dietary fiber content of two- and six-rowed varieties (Aalto et al), 284
 gamma irradiation of, effects (Bhatty and MacGregor), 463
 partial sequence of D hordein (Shewry et al), 510
 selection for malt quality (Clancy and Ullrich), 428
 Bran
 fiber component determination in tissues separated from wheat bran (Schwarz et al), 59
 in high-fiber breads (Sosulski and Wu), 186
 wheat, identification of C-glycosylflavones in (Feng et al), 452
 wheat and oat, apple fiber comparison (Chen et al), 244
 Bread and breadmaking
 bread firming affected by lipids, shortening, and bread moisture (Rogers et al), 398
 crumb firmness measured (Baker et al), 302
 fiber source effect on intestinal responses and nutrient digestibilities (Ranhotra et al), 9
 high-fiber breads with field pea hulls, wheat, corn, and wild oat brans (Sosulski and Wu), 186
 HMW glutenin subunits and breadmaking potential (Ng and Bushuk), 408
 lipids in, comparison of polymorphic forms (Leissner), 202
 metal ion effect on bromate oxidation during (De Stefanis et al), 257
 polysaccharide effect on (Siljeström et al), 1
 potential vs. gliadin patterns in high-protein wheats (Menkovska et al), 198
 properties of wheat protein components (Chakraborty and Khan), 333
 reconstitution of flour fractions (Chakraborty and Khan), 340
 soluble and total dietary fiber in (Ranhotra and Gelroth), 155
 Buckwheat, seed, lipid content and fatty acid composition of (Mazza), 122
 Cakes and cookies
 effects of damaged starch, chlorine gas, flour particle size, and dough holding time and temperature on cookie dough handling properties and cookie size (Gaines et al), 384
 flour fraction effect on cake volume and cookie spread (Donelson), 389

Cereal
 malted, dry- or wet-milled, nutritive value (Obizoba), 447
 pentosans, in wheat flour (Shogren et al), 182
 processing, distillers' grain products, effect of drying and level of solubles on lipid stability (Rasco), 161
 ready-to-eat breakfast, from sorghum (Lu and Walker), 377
 Cereal grains, α -amylase components in germinated kernels (MacGregor et al), 326
 Chickpea, biological evaluation of infant food (Valencia et al), 101
 Chromatography
 for analysis of azodicarbonamide in wheat flour (De Stefanis), 52
 of glutenin (Prasada Rao and Nigam), 373
 immobilized metal affinity, of wheat α -amylases (Zawistowska et al), 413, 512
 Cooking, of fortified spaghetti with legumes (Duszkiewicz-Reinhard et al), 278
 Corn
 bran, in high-fiber breads (Sosulski and Wu), 186
 breakage testers on, comparison (Gunasekaran), 287
 correlation of starch recovery with quality factor measurements (Weller et al), 392
 dust suppression during handling by oil application (Mounts et al), 175
 endosperm, zein proteins, fractionation and characterization (Paulis and Bietz), 215
 flour
 fluidity of aqueous systems (Foehe and Hosney), 497
 predicting fluidity (Foehe et al), 501
 gluten meal, scanning electron microscopy of (Harris et al), 228
 insoluble protein content, an indicator of steeping end point (Biss and Cogan), 281
 malted, dry- or wet-milled, nutritive value (Obizoba), 447
 masa, fractionation and composition of (Pflugfelder et al), 262
 masa production, dry matter losses in (Pflugfelder et al), 127
 microbial decontamination by gamma irradiation and effects on amino acids, thiamin, and riboflavin (Hanis et al), 381
 oil extraction of (Chien et al), 484
 starch, effects on, when cooked with alkali (Jackson et al), 493
 starches, extrusion-expansion properties of amylose (Chinnaswamy and Hanna), 138
 stillage soluble recovery from (Wu), 345
 stress-cracked and broken, alkaline processing properties of (Jackson et al), 133
 tortillas, decomposition of zearenone when making (Abbas et al), 15
 wetting, effect on moisture distribution (Martin et al), 431
 zein, analysis of commercial (Wilson), 72
 Cottonseed, polysaccharides and proteins of (Zarins and Marshall), 359
 Cowpeas, decortication pretreatment effect on paste and *akara* characteristics (McWatters et al), 23
 Crackers
 soda, soluble and insoluble fiber in (Ranhotra and Gelroth), 159
 water uptake rate measurement of (Gaines and Finney), 471
 Dehulling
 characteristics of colored-grain sorghum lines (Reichert et al), 165
 of cowpea, pretreatment effect on physicochemical properties of paste and *akara* (McWatters et al), 23
 of high-tannin sorghum (Mwasaru et al), 171
 Distillers' grain products, wheat, lipid stability of (Rasco), 161
 Disulfide, bonds, of wheat glutenin (Ewart), 95
 Dough
 characterization of proteins isolated from (Okada et al), 248
 effects of damaged starch, chlorine gas, flour particle size, and dough holding time and temperature on cookie dough handling properties and cookie size (Gaines et al), 384

- fermenting, lubricated uniaxial compression of (Cullen-Refai et al), 401
no-time, response-surface analysis of oxidative requirement of (Baker et al), 367
strength related to solubility of flour and gluten protein in AUC solvent (Kurowska and Bushuk), 156
Drying, test for drying damage in wheat (Lupano and Añón), 49
- Electron spin resonance, isolated gluten systems (Pearce et al), 55
- Electrophoresis
of durum wheat proteins (Kobrehel et al), 65
of gliadin and glutenin fractions (Chakraborty and Khan), 333
of oat prolamins for cultivar identification (Hansen et al), 153
PAGE, SDS-PAGE, and IEF of zein protein HPLC fractions (Paulis and Bietz), 215
PAGE technique for single kernels (Clements), 150
SDS-PAGE
of endosperm proteins during seed development of high-lysine and normal sorghum (Van Scoyoc et al), 75
of glutenin subunits relating to breadmaking potential (Ng and Bushuk), 408
of zein, commercial (Wilson), 72
- Errata
Lookhart et al (vol. 64, p. 199), 74
Ng and Bushuk (vol. 64, p. 324), 74
Serna-Saldivar et al (vol. 65, p. 44), 160
Zawistowska et al (vol. 65, p. 413), 512
- Ethanol, effect on solvent content and hardness of rice grain, and properties of starch (He and Suzuki), 307
- Extrusion, expansion properties of amylose (Chinnaswamy and Hanna), 138
- Extrusion cooking, for production of tortillas (Serna-Saldivar et al), 44, 160
- Fermentation, continuous-flow-system, glucose and ethanol products (St. Julian et al), 70
- Fiber
apple, composition and characterization of (Chen et al), 244
in bread, effect on intestinal responses and nutrient digestibilities (Ranhotra et al), 9
dietary
content of two- and six-rowed barley varieties (Aalto et al), 284
distribution of fiber components within wheat bran tissues (Schwarz et al), 59
soluble and dietary in bread (Ranhotra and Gelroth), 155
soluble and insoluble, in soda crackers (Ranhotra and Gelroth), 159
- Flavonoids, identification of C-glycosylflavones in wheat bran (Feng et al), 452
- Flour
analysis by HPLC of gliadins (Huebner and Bietz), 362
cake and cookie, fractionation and reconstitution of (Donelson), 389
chromatographic analysis of azodicarbonamide (De Stefanis), 52
glycolipids, determination of as benzoyl derivatives by HPLC (Walker), 433
hard wheat reduction, particle-size related physical properties of (Scanlon et al), 486
protein solubility in AUC solvent, relation to dough strength (Kurowska and Bushuk), 156
quinoa, germination effect on α -amylase content (Atwell et al), 508
starch damage predicted in, by NIR analysis (Finney et al), 449
wheat, cereal pentosans in (Shogren et al), 182
- Fractionation
by Landry Maureaux method of sorghum endosperm proteins during seed development (Van Scoyoc et al), 75
of wheat flours (Chakraborty and Khan), 333, 340
- Functionality, of cowpea paste in preparation of *akara*, effect of decortication pretreatment (McWatters et al), 23
- Germination
endogenous inhibitor in wheat grain (Morris and Paulsen), 404
of quinoa to reduce viscosity of starchy foods (Atwell et al), 508
- Gliadins
characterization of (Lookhart and Albers), 222
HPLC and PAGE of (Menkovska et al), 198
PAGE technique for single kernels (Clements), 150
reversed-phase HPLC (Huebner and Bietz), 362
quality assessment by HPLC and SDS-PAGE (Kruger et al), 208
- Gluten
effect of processing and ingredient changes on (Dreese et al), 354
heat effect on mixing and rheological properties of (Dreese et al), 348
protein solubility in AUC solvent, relation to dough strength (Kurowska and Bushuk), 156
systems, electron spin resonance studies of (Pearce et al), 55
- Glutenins
covalently bonded, molecular weight composition of (Prasada Rao and Nigam), 373
disulfide bonds between subunits (Ewart), 95
low molecular weight, in durum wheat (Kobrehel et al), 65
quality assessment by HPLC and SDS-PAGE (Kruger et al), 208
statistical relationship between HMW subunits and breadmaking potential (Ng and Bushuk), 408
- Grain
germinating inhibitor in (Morris and Paulsen), 404
pycnometer to measure density and porosity of (Chang), 13
sorghum, amino acid composition in relation to nitrogen content (Mossé et al), 271
structure of covering layers (Evers and Reed), 81
wheat hardness determination (Mattern), 312
- HPLC
correlations with A-PAGE and SDS-PAGE of gliadins from sister wheat lines (Lookhart and Albers), 222
for determination
of flour glycolipids as benzoyl derivatives (Walker), 433
of sulfur content through gliadin analysis (Huebner and Bietz), 362
for glutenin and gliadin analysis (Kruger et al), 208
quantitative analysis of gliadins and glutenins (Marchylo and Kruger), 192
quantitative reversed-phase separation of zein proteins from corn (Paulis and Bietz), 215
separation of storage proteins for wheat cultivar identification (Marchylo et al), 28
- Infant food, chickpea-based, linear programming formulation and biological evaluation of (Valencia et al), 101
- Insects, hidden, in wheat kernels (Schatzki and Fine), 233
- Instructions to authors, iii
- Instruments and instrumentation
corn breakage testers compared (Gunasekaran), 287
Instron universal testing machine to evaluate bread crumb firmness (Baker et al), 302
pycnometer, to measure volume of solid sample (Chang), 13
wheat hardness determination (Pomeranz et al), 86
wheat hardness tester, rapid single-kernel (Eckhoff et al), 503
- Iron, ferrous, content and stability of in soybeans (Laszlo), 20
- Irradiation, effect on barley (Bhatty and MacGregor), 463
- Isoelectric focusing, analysis of α -amylases in germinated cereal grains (MacGregor et al), 326
- Legumes, blended with durum semolina (Duszkiewicz-Reinhard et al), 278
- Lignin, distribution of in wheat bran tissues (Schwarz et al), 59
- Linear programming, for low-cost production of chickpea-based infant food (Valencia et al), 101
- Lipids
in breadmaking, comparison of polymorphic forms (Leissner), 202
content in buckwheat seed (Mazza), 122
effects on bread firming (Rogers et al), 398
stability of, in distillers' grains from wheat (Rasco), 161
- Maize gluten meal, optimization of, for use in pet foods (Harris et al), 267
- Malt
quality selection analysis (Clancy and Ullrich), 428
storage and water activity effects on wort characteristics (Singh and Bains), 118
- Masa, corn
fractionation and composition of (Pflugfelder et al), 262
production of (Pflugfelder et al), 127
- Method
measurement of water uptake rate of crackers (Gaines and Finney), 471
microscopic classification of wheat grains (Mattern), 312
response-surface analysis of oxidative requirement of no-time doughs (Baker et al), 367
wet milling of rice grain without damaging starch granules (He and Suzuki), 307
- Microcomputer, quality selection program/quality analysis program (Clancy and Ullrich), 428
- Microscopy, of starch granules from irradiated barley (Bhatty and MacGregor), 463
- Milling
effect on properties of wet and dry types of rice starch (He and Suzuki), 307

- germination inhibitor in mill fractions (Morris and Paulsen), 404
 hardness determination on milled grains (Mattern), 312
 particle-size related physical properties of hard wheat reduction flour (Scanlon et al), 486
 prediction of starch recovery from corn wet-milling (Weller et al), 392
 Moisture, of fortified spaghetti with legumes (Duszkiewicz-Reinhard et al), 278
 Monoglycerides, influence on textural shelf life and dough rheology of corn tortillas (Twilman and White), 253
 Near-infrared reflectance, application of, to determination of wheat strength (Williams et al), 109
 Nitrogen, in sorghum grain, relation to amino acid composition (Mossé et al), 271
 Noodles, Oriental dry, made from hard wheat flours, surface firmness (Rho et al), 320
 Oats
 microbial decontamination by gamma irradiation and effects on amino acids, thiamin, and riboflavin (Hanis et al), 381
 prolamin patterns for cultivar identification by rapid electrophoresis (Hansen et al), 153
 Oil, for dust suppression during handling of grains (Mounts et al), 175
 Oxidation
 bromate, metal ion effect during breadmaking (De Stefanis et al), 257
 chromatographic analysis of azodicarbonamide in wheat flour (De Stefanis), 52
 requirement of, response-surface analysis of no-time doughs (Baker et al), 367
 Pasta
 cooking quality of (Kobrehel et al), 65
 fortified spaghetti with legumes (Duszkiewicz-Reinhard et al), 278
 Pentosans
 cereal, estimation and significance in wheat flour (Shogren et al), 182
 content of 1B/1R translocation wheats (Dhaliwal et al), 143
 water-soluble in rye, isolation and characterization (Fengler and Marquardt), 291
 Pet foods, maize gluten meal for (Harris et al), 267
 Phytic acid, in faba bean and pea, effect on protein availability (Carnovale et al), 114
 Polysaccharides
 effect on during bread baking and storage (Siljeström et al), 1
 nonstarch, cottonseed, characterization and proteins of (Zarins and Marshall), 359
 Prolamins, electrophoresis in prefabricated gels for large-scale screening (Hansen et al), 153
 Proteases, degradation of bean proteins (Nielsen), 435
 Protein
 bean, degradation of by proteases (Nielsen), 435
 characterization of, in dough (Okada et al), 248
 composition of 1B/1R wheats (Dhaliwal et al), 143
 digestibility, effect of phytic acid on (Carnovale et al), 114
 durum wheat, sulphydryl and disulfide content in wheat proteins (Kobrehel et al), 65
 fraction changes during seed development of high-lysine and normal sorghum (Van Scoyoc et al), 75
 influence on sorghum starch gelatinization (Chandrashekar and Kirleis), 457
 Radiography, quantization of wheat kernel (Schatzki and Fine), 233
 Reverse osmosis
 corn and dry-milled corn fraction stillage solubles (Wu), 345
 of corn light steep-water solubles (Wu), 105
 Rheology
 dough, influence of monoglycerides in corn tortillas (Twilman and White), 253
 dynamic measurement of, heat effect on rheological properties (Dreese et al), 348
 effect of processing and ingredient changes on dough rheological properties (Dreese et al), 354
 effects of damaged starch, chlorine gas, flour particle size, and dough holding time and temperature on cookie dough handling properties and cookie size (Gaines et al), 384
 of fermenting dough, lubricated uniaxial compression of (Cullen-Refaei et al), 401
 Rice
 amylopectins, ratio of A chains to B chains in (Enevoldsen and Juliano), 424
 cakes, effect of variety on textural properties of (Perez and Juliano), 40
 α -globulin isolation and characterization (Pan and Reeck), 316
 grain and starch milled by wet milling method (He and Suzuki), 307
 nonwaxy for rice wine production (Sanchez et al), 240
 parboiled, degree of parboiling and physical properties (Biswas and Juliano), 417
 Rice wine, nonwaxy rice for (Sanchez et al), 240
 Rye
 partial sequence of high molecular weight secalin (Shewry et al), 510
 water-soluble pentosans from
 isolation and characterization (Fengler and Marquardt), 291
 viscosity effect (Fengler and Marquardt), 298
 Scanning electron microscopy
 of maize gluten meal and soy coextrudates (Harris et al), 228
 on seed coat and nucellus of mature wheat grain (Evers and Reed), 81
 SDS-PAGE
 correlations with A-PAGE and HPLC of gliadins from sister wheat lines (Lookhart and Albers), 222
 for glutenin and gliadin analysis (Kruger et al), 208
 rice storage proteins (Pan and Reeck), 316
 of sorghum endosperm proteins during seed development (Van Scoyoc et al), 75
 Shortening, effects on bread firming (Rogers et al), 398
 Sorghum
 for breakfast cereals (Lu and Walker), 377
 colored-grain, characterization of and dehulling characteristics (Reichert et al), 165
 dehulling of high-tannin types (Mwasaru et al), 171
 kernel characteristics and protein fraction changes during seed development (Van Scoyoc et al), 75
 malted, dry- or wet-milled, nutritive value (Obizoba), 447
 protein influence on starch gelatinization in (Chandrashekar and Kirleis), 457
 whole grains, amino acid composition in relation to nitrogen content (Mossé et al), 271
 Soybeans
 dust suppression during handling by oil application (Mounts et al), 175
 ferrous iron content and stability in (Laszlo), 20
 Staling, bread, as affected by lipids, shortening, and bread moisture (Rogers et al), 398
 Starch
 amylose content effect on extrusion-expansion properties (Chinnaswamy and Hanna), 138
 aqueous high-performance size-exclusion chromatography (Jackson et al), 493
 barley, gamma irradiation effect on (Bhatti and MacGregor), 463
 corn and wheat, paste and gel properties of (Takahashi and Seib), 474
 correlation of wet-milling recovery with corn quality factors (Weller et al), 392
 damaged, NIR prediction of (Finney et al), 449
 effect of processing and ingredient changes on (Dreese et al), 354
 gelatinization
 determined by X-ray diffraction (Zobel et al), 443
 effect on rheological properties of dough (Dreese et al), 348
 in sorghum, protein influence (Chandrashekar and Kirleis), 457
 properties, effect of milling methods (He and Suzuki), 307
 rice varietal differences (Biswas and Juliano), 417
 wheat, hydrophobicity of heated (Seguchi and Yamada), 375
 Steeping, corn, solubilization of insoluble proteins and starch quality (Biss and Cogan), 281
 Storage
 of bread, influence of starch availability (Siljeström et al), 1
 water activity effects on wheat malt and wort characteristics (Singh and Bains), 118
 Storage protein
 effect of injection volume on HPLC analysis of gliadins and glutenins (Marchylo and Kruger), 192
 α -globulin from rice (Pan and Reeck), 316
 separation by RP-HPLC (Marchylo et al), 28
 Tannins
 characterization of high-tannin sorghum lines (Reichert et al), 165
 removal of during sorghum dehulling (Mwasaru et al), 171
 Test, for drying damage in wheat (Lupano and Añón), 49
 Texture, measurement of water uptake rate of crackers (Gaines and Finney), 471
 Tortillas
 corn
 decomposition of zeaxanthone when making (Abbas et al), 15
 influence of monoglycerides on textural shelf life and dough rheology

- (Twillman and White), 253
fortification of (Serna-Saldivar et al), 44, 160
- Ultrafiltration**
corn and dry-milled corn fraction stillage solubles (Wu), 345
of corn light steep-water solubles (Wu), 105
- Viscosity, of starchy foods, reduction with quinoa flour (Atwell et al), 508**
- Wheat**
 α -amylases, purification by immobilized metal affinity chromatography (Zawistowska et al), 413, 512
bran
 in high-fiber breads (Sosulski and Wu), 186
 identification of C-glycosylflavones in (Feng et al), 452
cultivar identification by RP-HPLC (Marchylo et al), 28
durum, sulfhydryl and disulfide content in proteins (Kobrehel et al), 65
dust suppression during handling by oil application (Mounts et al), 175
endogenous germination inhibitor (Morris and Paulsen), 404
glutenin, disulfide bonds in (Ewart), 95
hardness determination (Pomeranz et al), 86; (Mattern), 312
malt storage and water activity effects on wort characteristics (Singh and Bains), 118
mature grain structure (Evers and Reed), 81
microbial decontamination by gamma irradiation and effects on amino acids, thiamin, and riboflavin (Hanis et al), 381
NIR analysis of, for prediction of damaged starch (Finney et al), 449
particle-size related physical properties of hard wheat reduction flour (Scanlon et al), 486
protein and pentosan content of 1B/1R translocation wheats (Dhaliwal et al), 143
quality differences due to sulfur availability determined by HPLC of gliadins (Huebner and Bietz), 362
radiography for quality control (Schatzki and Fine), 233
rapid single-kernel hardness tester (Eckhoff et al), 503
single kernel PAGE technique for determining homogeneity (Clements), 150
starch, hydrophobicity of heated (Seguchi and Yamada), 375
strength determination of, by near-infrared reflectance (Williams et al), 109
test for drying damage (Lupano and Añón), 49
- X-ray diffraction, for starch gelatinization determination (Zobel et al), 443**
- Yeast, immobilized, *Candida wickerhamii*, calcium-alginate (St. Julian et al), 70**
- Zearalenone, decomposition of when making corn tortillas (Abbas et al), 15**
- Zein**
commercial, electrophoretic analysis of (Wilson), 72
fractionation and characterization of (Paulis and Bietz), 215

- iii Instructions to Authors
- v Acknowledgment of Reviewers
- 1 Effects on Polysaccharides During Baking and Storage of Bread—In Vitro and In Vivo Studies. *M. Siljeström, I. Björk, A.-C. Eliasson, C. Lönner, M. Nyman, and N.-G. Asp*
- 9 Effect of the Source of Fiber in Bread on Intestinal Responses and Nutrient Digestibilities. *G. S. Ranhotra, J. A. Gelroth, and P. H. Bright*
- 13 Measuring Density and Porosity of Grain Kernels Using a Gas Pycnometer. *C. S. Chang*
- 15 Decomposition of Zearalenone and Deoxynivalenol in the Process of Making Tortillas from Corn. *H. K. Abbas, C. J. Mirocha, R. Rosiles, and M. Carvajal*
- 20 Content and Stability of Ferrous Iron in Soybean Hulls. *J. A. Laszlo*
- 23 Effect of Predecortication Drying Temperature on Cowpea Paste Characteristics and Functionality in Preparation of Akara. *K. H. McWatters, M. S. Chinnan, Y.-C. Hung, and A. L. Branch*
- 28 Identification of Wheat Cultivars by Reversed-Phase High-Performance Liquid Chromatography of Storage Proteins. *B. A. Marchylo, D. W. Hatcher, and J. E. Kruger*
- 40 Varietal Differences in Quality Characteristics of Rice Layer Cakes and Fermented Cakes. *C. M. Perez and B. O. Juliano*
- 44 Effect of Soybean and Sesame Addition on the Nutritional Value of Maize and Decorticated Sorghum Tortillas Produced by Extrusion Cooking. *S. O. Serna-Saldivar, R. Canett, J. Vargas, M. Gonzalez, S. Bedolla, and C. Medina*
- 49 A Simple and Rapid Test for Drying Damage in Wheat. *C. E. Lupano and M. C. Añón*
- 52 Analysis of Azodicarbonamide in Wheat Flour by Liquid Chromatography. *V. A. De Stefanis*
- 55 Electron Spin Resonance Studies of Isolated Gluten Systems. *L. E. Pearce, E. A. Davis, J. Gordon, and W. G. Miller*
- 59 The Distribution of Lignin and Other Fiber Components Within Hard Red Spring Wheat Bran. *P. B. Schwarz, W. H. Kuerth, and V. L. Youngs*
- 65 Low Molecular Weight Durum Wheat Glutenin Fractions Rich in Sulfhydryl Plus Disulfide Groups. *K. Kobrehel, C. Reymond, and R. Alary*

- 70 NOTE: Characterization of Cellobiose Conversion to Glucose and Ethanol by Immobilized *Candida wickerhamii*. G. St. Julian, S. N. Freer, N. J. Alexander, and R. J. Bothast
- 72 NOTE: Electrophoretic Analyses of Various Commercial and Laboratory-Prepared Zeins. C. M. Wilson
- 74 Errata

VOLUME 65, NUMBER 2

MARCH-APRIL 1988

- 75 Kernel Characteristics and Protein Fraction Changes During Seed Development of High-Lysine and Normal Sorghums. S. W. VanScoyoc, G. Ejeta, and J. D. Axtell
- 81 Some Novel Observations by Scanning Electron Microscopy on the Seed Coat and Nucellus of the Mature Wheat Grain. A. D. Evers and M. Reed
- 86 Wheat Hardness Determined by a Single Kernel Compression Instrument with Semiautomated Feeder. Y. Pomeranz, C. R. Martin, R. Rousser, D. Brabec, and F. S. Lai
- 95 Studies on Disulfide Bonds in Glutenin. J. A. D. Ewart
- 101 Linear Programming Formulation and Biological Evaluation of Chickpea-Based Infant Foods. M. E. Valencia, R. Troncoso, and I. Higuera
- 105 Reverse Osmosis and Ultrafiltration of Corn Light Steep-Water Solubles. Y. V. Wu
- 109 Preliminary Observations on the Determination of Wheat Strength by Near-Infrared Reflectance. P. C. Williams, F. Jaby El-Haramein, G. Ortiz-Ferreira, and J. P. Srivastava
- 114 Phytic Acid in Faba Bean and Pea: Effect on Protein Availability. E. Carnovale, E. Lugaro, and G. Lombardi-Boccia
- 118 Storage of Wheat Malt: Sorption Properties and Water Activity Interrelations with Malt and Wort Characteristics. T. Singh and G. S. Bains
- 122 Lipid Content and Fatty Acid Composition of Buckwheat Seed. G. Mazza
- 127 Dry Matter Losses in Commercial Corn Masa Production. R. L. Pflugfelder, L. W. Rooney, and R. D. Waniska
- 133 Alkaline Processing Properties of Stress-Cracked and Broken Corn (*Zea mays* L.). D. S. Jackson, L. W. Rooney, O. R. Kunze, and R. D. Waniska

- 138 Relationship Between Amylose Content and Extrusion-Expansion Properties of Corn Starches. *R. Chinnaswamy and M. A. Hanna*
- 143 Protein Composition and Pentosan Content in Relation to Dough Stickiness of 1B/1R Translocation Wheats. *A. S. Dhaliwal, D. J. Mares, D. R. Marshall, and J. H. Skerritt*
- 150 NOTE: A Labor-Saving Technique for Polyacrylamide Gel Electrophoresis of Gliadins from Large Numbers of Single Wheat Kernels. *R. L. Clements*
- 153 NOTE: Rapid Electrophoresis of Oat (*Avena sativa* L.) Prolamins from Single Seeds for Cultivar Identification. *A. E. Hansen, A. Nassuth, and I. Altsaar*
- 155 NOTE: Soluble and Total Dietary Fiber in White Bread. *G. Ranhotra and J. Gelroth*
- 156 NOTE: Solubility of Flour and Gluten Protein in a Solvent of Acetic Acid, Urea, and Cetyltrimethylammonium Bromide, and Its Relationship to Dough Strength. *E. Kurowska and W. Bushuk*
- 159 NOTE: Soluble and Insoluble Fiber in Soda Crackers. *G. Ranhotra and J. Gelroth*
- 160 Erratum

VOLUME 65, NUMBER 3

MAY-JUNE 1988

- 161 Stability of Lipids in Distillers' Dried Grain Products Made from Soft White Winter Wheat. *B. A. Rasco*
- 165 Characterization of Colored-Grain Sorghum Lines and Identification of High-Tannin Lines with Good Dehulling Characteristics. *R. D. Reichert, M. A. Mwasaru, and S. Z. Mukuru*
- 171 Factors Affecting the Abrasive Dehulling Efficiency of High-Tannin Sorghum. *M. A. Mwasaru, R. D. Reichert, and S. Z. Mukuru*
- 175 Effect of Laboratory-Scale Oil Applications on Quality Factors of Corn, Soybeans, and Wheat. *T. L. Mounts, K. Warner, F. S. Lai, C. R. Martin, Y. Pomeranz, W. E. Burkholder, A. J. Peplinski, A. R. Class, and C. W. Davis*
- 182 Cereal Pentosans: Their Estimation and Significance. IV. Pentosans in Wheat Flour Varieties and Fractions. *M. D. Shogren, S. Hashimoto, and Y. Pomeranz*
- 186 High-Fiber Breads Containing Field Pea Hulls, Wheat, Corn, and Wild Oat Brans. *F. W. Sosulski and K. K. Wu*

- 192 The Effect of Injection Volume on the Quantitative Analysis of Wheat Storage Proteins by Reversed-Phase High-Performance Liquid Chromatography. *B. A. Marchylo and J. E. Kruger*
- 198 Gliadin in Crumb of Bread from High-Protein Wheat Flours of Varied Breadmaking Potential. *M. Menkovska, Y. Pomeranz, G. L. Lookhart, and M. D. Shogren*
- 202 A Comparison of the Effect of Different Polymorphic Forms of Lipids in Breadmaking. *O. Leissner*
- 208 Preliminary Assessment of a Sequential Extraction Scheme for Evaluating Quality by Reversed-Phase High-Performance Liquid Chromatography and Electrophoretic Analysis of Gliadins and Glutenins. *J. E. Kruger, B. A. Marchylo, and D. Hatcher*
- 215 Characterization of Zeins Fractionated by Reversed-Phase High-Performance Liquid Chromatography. *J. W. Paulis and J. A. Bietz*
- 222 Correlations Between Reversed-Phase High-Performance Liquid Chromatography and Acid- and Sodium Dodecyl Sulfate-Polyacrylamide Gel Electrophoretic Data on Prolamins from Wheat Sister Lines Differing Widely in Baking Quality. *G. L. Lookhart and L. D. Albers*
- 228 A Scanning Electron Microscope Study of Maize Gluten Meal and Soy Coextrudates. *P. L. Harris, S. L. Cuppett, and K. W. Lee*
- 233 Analysis of Radiograms of Wheat Kernels for Quality Control. *T. F. Schatzki and T. A. Fine*
- 240 Nonwaxy Rice for *Tapuy* (Rice Wine) Production. *P. C. Sanchez, B. O. Juliano, V. T. Laude, and C. M. Perez*
- 244 Chemical, Physical, and Baking Properties of Apple Fiber Compared with Wheat and Oat Bran. *H. Chen, G. L. Rubenthaler, H. K. Leung, and J. D. Baranowski*
- 248 Characterization of Acetic Acid-Soluble and Insoluble Proteins Isolated from Doughs Mixed in the Presence of *N*-Ethylmaleimide. *K. Okada, Y. Negishi, and S. Nagao*
- 253 Influence of Monoglycerides on the Textural Shelf Life and Dough Rheology of Corn Tortillas. *T. J. Twillman and P. J. White*
- 257 The Effect of Metal Ions on Bromate Oxidation During Breadmaking. *V. A. De Stefanis, P. M. Ranum, and R. W. Erickson*
- 262 Fractionation and Composition of Commercial Corn Masa. *R. L. Pflugfelder, L. W. Rooney, and R. D. Waniska*
- 267 Optimization of Initial Moisture, pH, and Extrusion Temperature of an Acetone-Extracted Maize Gluten Meal and Soy Extrudate for Use in Pet Foods. *P. L. Harris, S. L. Cuppett, J. H. Rupnow, C. E. Walker, R. F. Mumm, and M. A. Hanna*

- 271 The Amino Acid Composition of Whole Sorghum Grain in Relation to Its Nitrogen Content. *J. Mossé, J.-C. Huet, and J. Baudet*
- 278 Shelf Life Stability of Spaghetti Fortified with Legume Flours and Protein Concentrates. *W. Duszakiewicz-Reinhard, K. Khan, J. W. Dick, and Y. Holm*
- 281 The Significance of Insoluble Protein Solubilization in Corn Steeping. *R. Biss and U. Cogan*
- 284 Dietary Fiber Content of Barley Grown in Finland. *T. Aalto, M. Lehtonen, and P. Varo*
- 287 Evaluation and Comparison of Wisconsin and Stein Breakage Testers on Corn. *S. Gunasekaran*
- 291 Water-Soluble Pentosans from Rye: I. Isolation, Partial Purification, and Characterization. *A. I. Fengler and R. R. Marquardt*
- 298 Water-Soluble Pentosans from Rye: II. Effects on Rate of Dialysis and on the Retention of Nutrients by the Chick. *A. I. Fengler and R. R. Marquardt*
- 302 An Optimum Compression Depth for Measuring Bread Crumb Firmness. *A. E. Baker, C. E. Walker, and K. Kemp*
- 307 A Method to Remove the Outer Layer of Rice Endosperm Without Damaging Starch Granules. *G.-C. He and H. Suzuki*
- 312 Wheat Hardness: A Microscopic Classification of Individual Grains. *P. J. Mattern*
- 316 Isolation and Characterization of Rice α -Globulin. *S.-J. Pan and G. R. Reeck*
- 320 Noodles. VII. Investigating the Surface Firmness of Cooked Oriental Dry Noodles Made from Hard Wheat Flours. *K. L. Rho, P. A. Seib, O. K. Chung, and C. W. Deyoe*
- 326 Multiple α -Amylase Components in Germinated Cereal Grains Determined by Isoelectric Focusing and Chromatofocusing. *A. W. MacGregor, B. A. Marchylo, and J. E. Kruger*
- 333 Biochemical and Breadmaking Properties of Wheat Protein Components. I. Compositional Differences Revealed Through Quantitation and Polyacrylamide Gel Electrophoresis of Protein Fractions from Various Isolation Procedures. *K. Chakraborty and K. Khan*
- 340 Biochemical and Breadmaking Properties of Wheat Protein Components. II. Reconstitution Baking Studies of Protein Fractions from Various Isolation Procedures. *K. Chakraborty and K. Khan*

- 345 Recovery of Stillage Soluble Solids from Corn and Dry-Milled Corn Fractions by High-Pressure Reverse Osmosis and Ultrafiltration. *Y. V. Wu*
- 348 Dynamic Rheological Properties of Flour, Gluten, and Gluten-Starch Doughs. I. Temperature-Dependent Changes During Heating. *P. C. Dreese, J. M. Faubion, and R. C. Hosene*
- 354 Dynamic Rheological Properties of Flour, Gluten, and Gluten-Starch Doughs. II. Effect of Various Processing and Ingredient Changes. *P. C. Dreese, J. M. Faubion, and R. C. Hosene*
- 359 Polysaccharides and Proteins of Glandless Cottonseed Flour. *Z. M. Zarins and W. E. Marshall*
- 362 Quantitative Variation Among Gliadins of Wheats Grown in Different Environments. *F. R. Huebner and J. A. Bietz*
- 367 A Response-Surface Analysis of the Oxidative Requirements of No-Time Doughs. *A. E. Baker, W. T. Doerry, K. Kulp, and K. Kemp*
- 373 NOTE: Chromatography of Glutenin on Sepharose CL-4B in Dissociating Solvents: Molecular Weight Composition of Covalently Bonded Glutenin. *U. J. S. Prasada Rao and S. N. Nigam*
- 375 NOTE: Hydrophobic Character of Heat-Treated Wheat Starch. *M. Seguchi and Y. Yamada*
- 377 NOTE: Laboratory Preparation of Ready-to-Eat Breakfast Flakes from Grain Sorghum Flour. *S. Lu and C. E. Walker*

VOLUME 65, NUMBER 5

SEPTEMBER-OCTOBER 1988

- 381 Effect of Gamma Irradiation on Survival of Natural Microflora and Some Nutrients in Cereal Meals. *T. Hanis, J. Mnukova, P. Jelen, P. Klir, B. Perez, and M. Pesek*
- 384 Effects of Damaged Starch, Chlorine Gas, Flour Particle Size, and Dough Holding Time and Temperature on Cookie Dough Handling Properties and Cookie Size. *C. S. Gaines, J. R. Donelson, and P. L. Finney*
- 389 The Contribution of High-Protein Fractions from Cake and Cookie Flours to Baking Performance. *J. R. Donelson*
- 392 Correlation of Starch Recovery with Assorted Quality Factors of Four Corn Hybrids. *C. L. Weller, M. R. Paulsen, and M. P. Steinberg*
- 398 Effect of Native Lipids, Shortening, and Bread Moisture on Bread Firming. *D. E. Rogers, K. J. Zeleznak, C. S. Lai, and R. C. Hosene*

- 401 Lubricated Uniaxial Compression of Fermenting Doughs.
A. Cullen-Refai, J. M. Faubion, and R. C. Hoseney
- 404 Localization and Physical Properties of Endogenous Germination
Inhibitors in White Wheat Grain. *C. F. Morris and G. M. Paulsen*
- 408 Statistical Relationships Between High Molecular Weight
Subunits of Glutenin and Breadmaking Quality
of Canadian-Grown Wheats. *P. K. Ng and W. Bushuk*
- 413 Immobilized Metal Affinity Chromatography
of Wheat α -Amylases. *U. Zawistowska, K. Sangster,
J. Zawistowski, J. Langstaff, and A. D. Friesen*
- 417 Laboratory Parboiling Procedures and Properties
of Parboiled Rice from Varieties Differing in Starch Properties.
S. K. Biswas and B. O. Juliano
- 424 Ratio of A Chains to B Chains in Rice Amylopectins.
B. S. Enevoldsen and B. O. Juliano
- 428 Analysis and Selection Program for Malt Quality in Barley
by Microcomputer. *J. A. Clancy and S. E. Ullrich*
- 431 The Effects of Wetting Corn and Broken Corn and Foreign
Material on Aquagrams. *C. R. Martin, Z. Czuchajowska,
and Y. Pomeranz*
- 433 Determination of Flour Glycolipids as Their Benzoyl Derivatives
by High-Performance Liquid Chromatography with Ultraviolet
Detection. *G. C. Walker*
- 435 Degradation of Bean Proteins by Endogenous and Exogenous
Proteases—A Review. *S. S. Nielsen*

VOLUME 65, NUMBER 6

NOVEMBER–DECEMBER 1988

- 443 Starch Gelatinization: An X-ray Diffraction Study. *H. F. Zobel,
S. N. Young, and L. A. Rocca*
- 447 Nutritive Value of Malted, Dry- or Wet-Milled Sorghum and Corn.
I. C. Obizoba
- 449 Prediction of Damaged Starch in Straight-Grade Flour
by Near-Infrared Reflectance Analysis of Whole Ground Wheat.
P. L. Finney, J. E. Kinney, and J. R. Donelson
- 452 C-Glycosylflavones from Hard Red Spring Wheat Bran. *Y. Feng,
C. E. McDonald, and B. A. Vick*
- 457 Influence of Protein on Starch Gelatinization in Sorghum.
A. Chandrashekar and A. W. Kirleis
- 463 Gamma Irradiation of Hullless Barley: Effect on Grain
Composition, β -Glucans and Starch. *R. S. Bhatti
and A. W. MacGregor*

- 471 Measurement of the Water Uptake Rate of Crackers.
C. S. Gaines and P. L. Finney
- 474 Paste and Gel Properties of Prime Corn and Wheat Starches
With and Without Native Lipids. *S. Takahashi and P. A. Seib*
- 484 Simultaneous Dehydration of 95% Ethanol and Extraction
of Crude Oil from Dried Ground Corn. *J. T. Chien,
J. E. Hoff, and L. F. Chen*
- 486 Particle-Size Related Physical Properties of Flour Produced
by Smooth Roll Reduction of Hard Red Spring Wheat Farina.
M. G. Scanlon, J. E. Dexter, and C. G. Biliaderis
- 493 Characterization of Starch Cooked in Alkali by Aqueous
High-Performance Size-Exclusion Chromatography. *D. S. Jackson,
C. Choto-Owen, R. D. Waniska, and L. W. Rooney*
- 497 Factors Affecting the Bostwick Fluidity of Corn Flour/Water
Systems. *K. B. Foehse and R. C. Hoseney*
- 501 Predicting the Fluidity of Corn Flour/Water Systems.
K. B. Foehse, R. C. Hoseney, and D. E. Johnson
- 503 A Rapid Single-Kernel Wheat Hardness Tester. *S. R. Eckhoff,
W. A. Supak, and A. B. Davis*
- 508 NOTE: Germinated Quinoa Flour to Reduce the Viscosity
of Starchy Foods. *W. A. Atwell, R. G. Hyldon, P. D. Godfrey,
E. L. Galle, W. H. Sperber, D. C. Pedersen, W. D. Evans,
and G. O. Rabe*
- 510 NOTE: N-Terminal Amino Acid Sequences Show that D Hordein
of Barley and High Molecular Weight (HMW) Secalins of Rye
Are Homologous with HMW Glutenin Subunits of Wheat.
P. R. Shewry, A. S. Tatham, D. J. Pappin, and J. Keen
- 512 Erratum
- 513 *Cereal Chemistry* Editors and Staff
- 514 Author Index, Volume 65
- 517 Subject Index, Volume 65
- 521 Contents Index, Volume 65

